

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 December 2004 (09.12.2004)

PCT

(10) International Publication Number
WO 2004/106731 A1

(51) International Patent Classification⁷: **F03B 13/00**, 9/00, 17/06

(21) International Application Number:
PCT/SG2004/000161

(22) International Filing Date: 31 May 2004 (31.05.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
200303232-3 2 June 2003 (02.06.2003) SG

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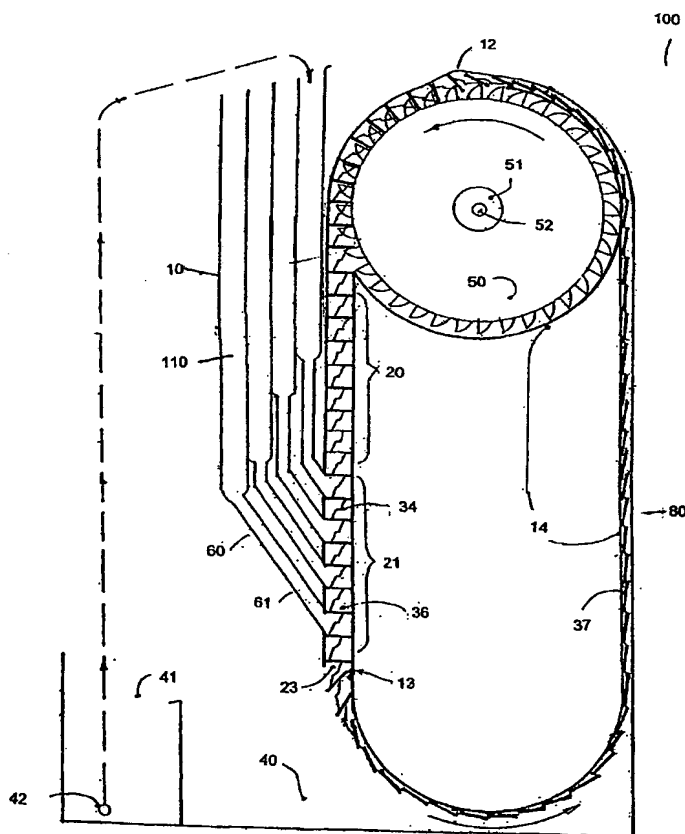
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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

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(54) Title: PORTABLE HYDRO-GENERATOR



(57) Abstract: A portable hydro-generator (100), for the generation of power, including a tower (10) filled with a driving fluid (110), a semi-sealed curved tubular housing (80) with a drive portion (81) and a return portion (82) primed with a fluid (70), said drive portion (81) having a larger diameter than the return portion (82), an inlet means (60) to allow said fluid to enter said tubular housing (80), a plurality of paddles (30) to harness the kinetic energy of the fluid entering the curved tubular housing, a linkage assembly (34) to link said plurality of paddles, a drive chamber (83), a sprocket (50) within said drive chamber (83) to engage a portion of said paddles, and an output power generator attached to said sprocket. A paddle (30) adapted to be used in the hydro-generator include a top surface (31), a bottom surface (32), seals (33) to prevent water leakage through the paddles, a linkage bar (34) to allow an attachment of said paddle to subsequent paddle, wherein the top surface of the paddle further includes studs (39) to increase the effective surface area of the top of the paddle.

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Published:

— with international search report

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